



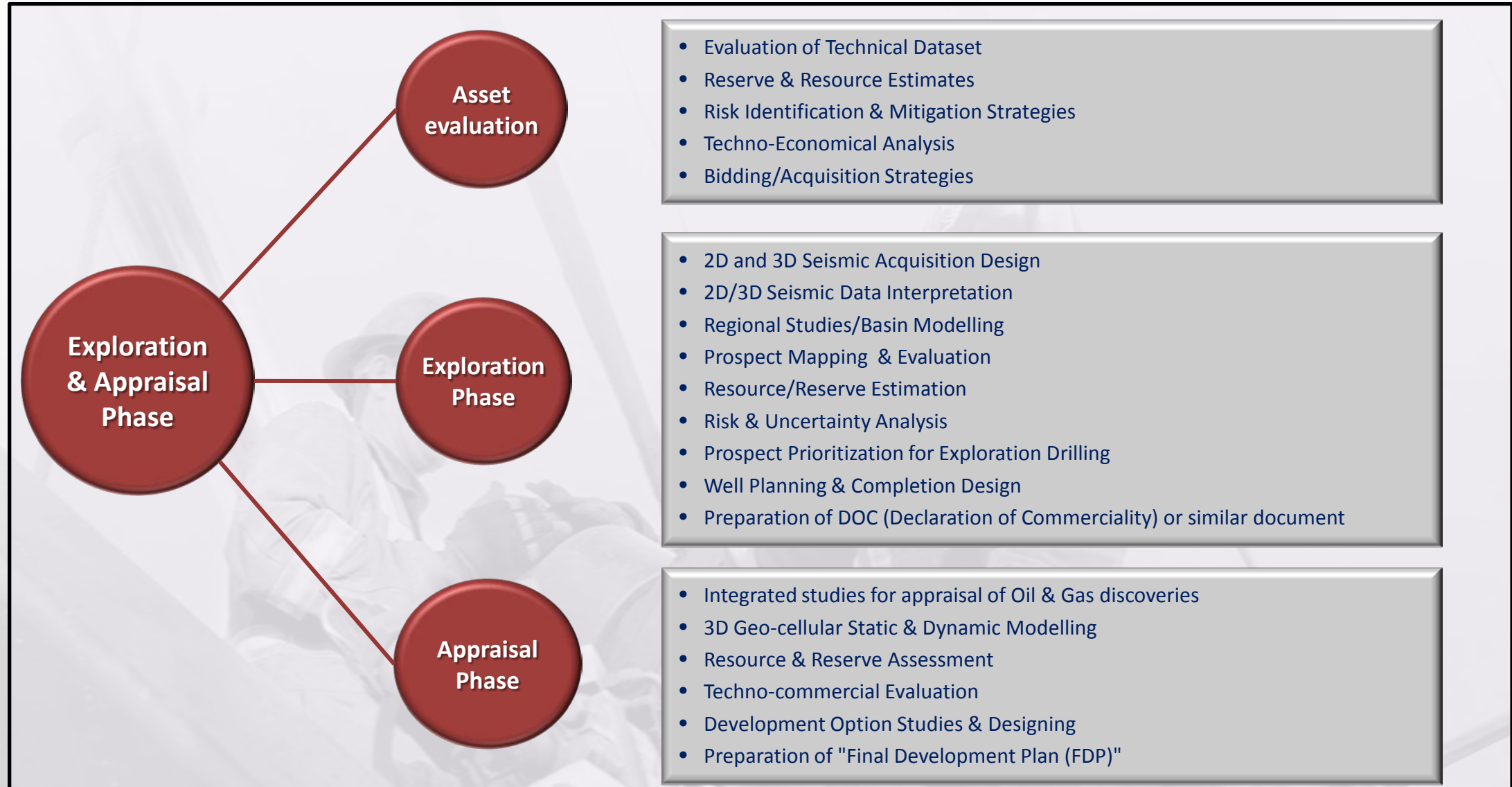
# GINNOVO

*(DPRS) Data Processing & Reservoir Solutions*

## Exploration and Production Capabilities

[www.ginnovo-group.com](http://www.ginnovo-group.com)

[info@ginnovo-group.com](mailto:info@ginnovo-group.com)  
[sales@ginnovo-group.com](mailto:sales@ginnovo-group.com)



```
graph LR; A((Development Phase)) --- B((Subsurface Studies)); A --- C((Operational Support));
```

## Development Phase

### Subsurface Studies

- Well Plan & Completion Design for Development Wells
- Formulation of Data Acquisition Strategy
- Preparation of Robust Static & Dynamic Models
- Resource & Reserve Reassessment including Economic Studies
- Production Forecast with Sensitivity Analysis
- Formulation of Suitable Lift-mechanism
- Planning of Surface Facilities
- Preparation of Revised FDP

### Operational Support

- Supervision & QC During of
  - Drilling
  - Production Testing
  - Well Completion
  - Surface Facility Installation

## Geophysics

- Planning & Designing of 2D/3D/4D Seismic Data Acquisition Geometry
- Designing of 2D/3D Seismic Data Processing Workflow
- 2D/3D Seismic data Interpretation
- Prospect Mapping & Evaluation
- Seismic Attribute Analysis
- Rock Physics & Seismic Inversion
- Geophysical Support to Field Operations

## Geology

- Integrated Basin Studies
- Exploration GCoS assessment
- Develop Exploration, Appraisal & Development Strategy
- Structural & Stratigraphic Studies
- Building of 3D Geo-cellular Static Model
- Sensitivity & Uncertainty Analysis
- In-place, Reserve & Resource Estimate
- 1D & 3D Geomechanical Model Building

## Petrophysics

- Well log and core data acquisition designing
- Petrophysical evaluation of by integrating well logs, & core data
- Reservoir Rock Typing, Permeability Modelling, Saturation Height Function for Geo-cellular Model
- Advanced logs (i.e. NMR, Acoustic, Formation Tester data and Image Log) Interpretation
- Interpretation of Advanced Cased Hole Neutron log, Cement bond log, corrosion log etc.

## Reservoir Engineering

- Classical Reservoir Engineering
- PVT Modelling
- Building of Reservoir simulation Models for History Matching & Production Forecast
- Building Production Scenarios with Sensitivity & Uncertainty Analysis
- Reservoir Surveillance & Management
- Development Planning
- Enhanced and Improved Oil Recovery techniques (EOR/IOR)
- In-place, Reserve & Resource Estimate

## Production Engineering

- Conventional & Unconventional Completions Design
- Production Optimization & Monitoring
- Stimulation & Artificial Lift Planning
- Well Test Planning & Analysis
- Well Servicing and Workover Operations Planning & Supervision

## Drilling Operations

- Well Engineering Based on Available Geomechanical Model
- Well and Completion Design of Exploration, Appraisal & Development Wells
- Supervision of Drilling Operations

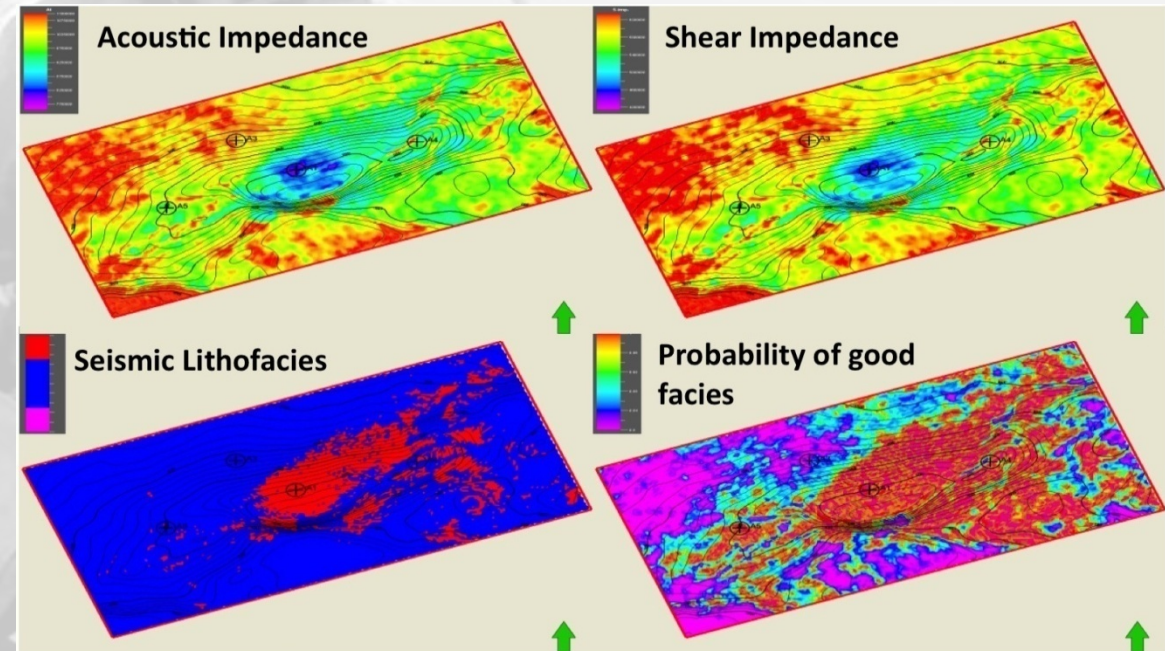
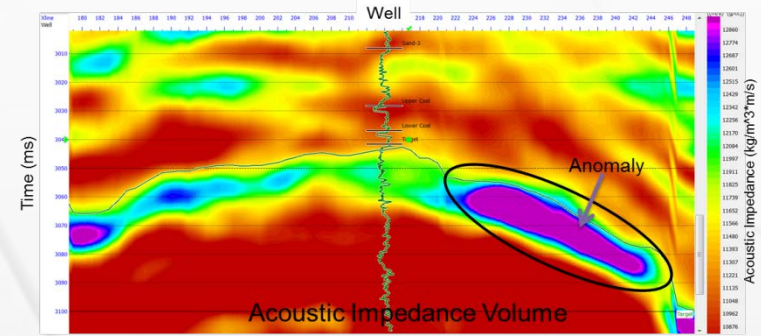
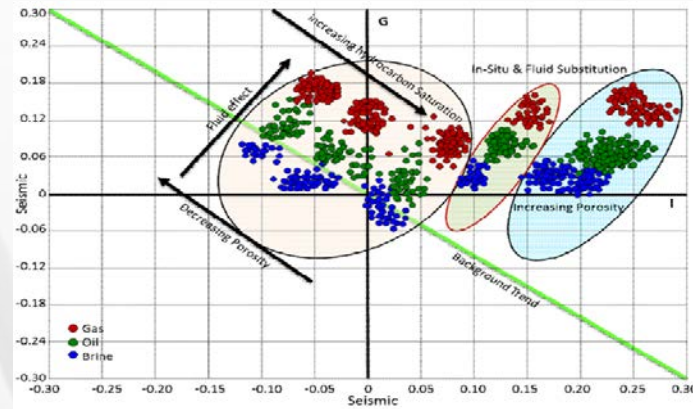


## Geophysics

Our team of Geophysicist offers a wide range of surface and subsurface expertise and experience that can be applied at any point in the life of an asset, from exploration to production.

### What we provide

- Planning & Designing of 2D/3D/4D Seismic Data Acquisition Geometry
- Designing of 2D/3D Seismic Data Processing Workflow
- 2D/3D Seismic data Interpretation
- Prospect Mapping & Evaluation
- Seismic Attribute Analysis
- Rock Physics & Seismic Inversion
- Geophysical Support to Field Operations



## GEOLOGY

Our team of Geologists offers a wide range of subsurface expertise and experience that can be applied at any point in the life of an asset, from exploration to production.

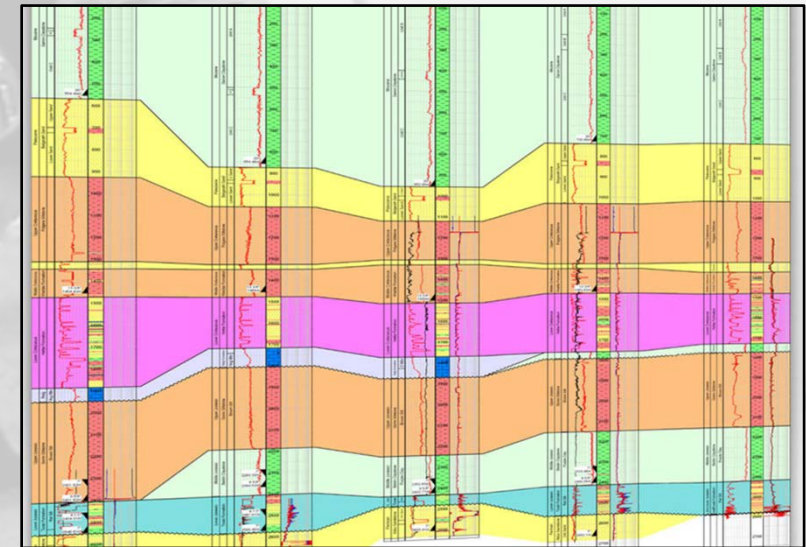
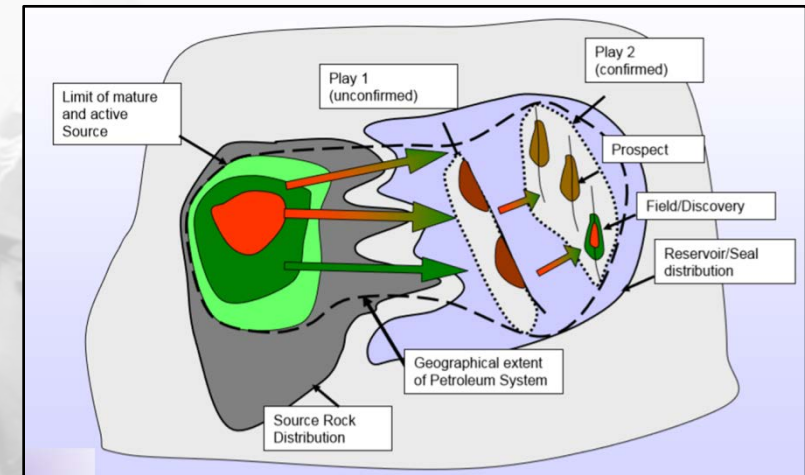
### What we provide

#### Exploration Stage

- Basin modelling (regional correlations and sedimentological models, reservoir analogues, sand-body geometry, integration with seismic and petrophysics for prospect evaluation)
- Develop Exploration Strategy by evaluating Play, Lead and Prospect
- Exploration GCoS assessment
- In-place & Prospective Resource Estimate

#### Appraisal & Development Stage

- Stratigraphic Correlation and Structural Mapping
- In-place, Reserve & Resource Estimate
- Develop Appraisal & Development Strategy along with an integrated team of Geophysicists, Petrophysicists, Reservoir & Petroleum Engineers



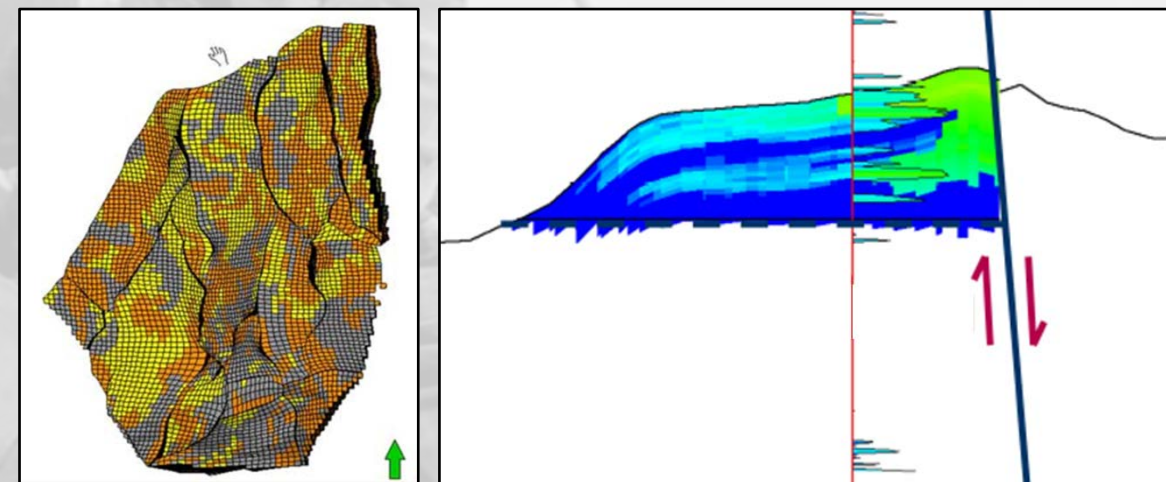
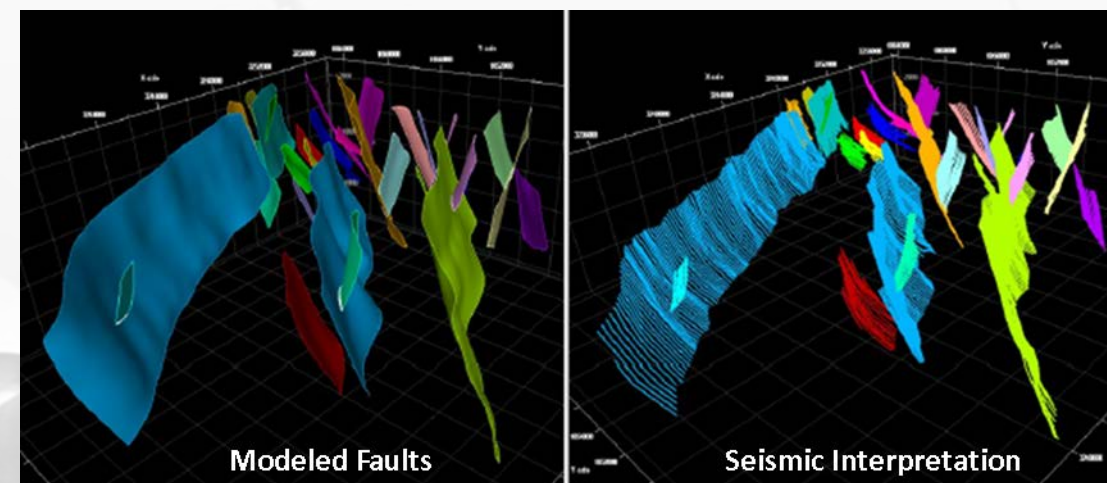


## GEOMODELLING

Our team of Geomodellers offers expertise in construction of appropriate geo-cellular models (in PETREL) based on all of the available seismic, well log and test data. These models can be used for new well location identification, volumetric calculation, can be Upscaled and used for reservoir simulation studies.

### What we provide

- Construction of Structural model incorporating seismic interpretation and well correlations
- Facies and petrophysical property modeling by using Geo-statistical techniques incorporating petrophysical inputs and appropriate seismic attribute analysis
- Water Saturation modeling by identifying fluid contacts and incorporating petrophysical interpretation, reservoir engineering inputs and production test results
- Deterministic and probabilistic volumetric calculations for hydrocarbon resource assessment
- Sensitivity & Uncertainty Analysis

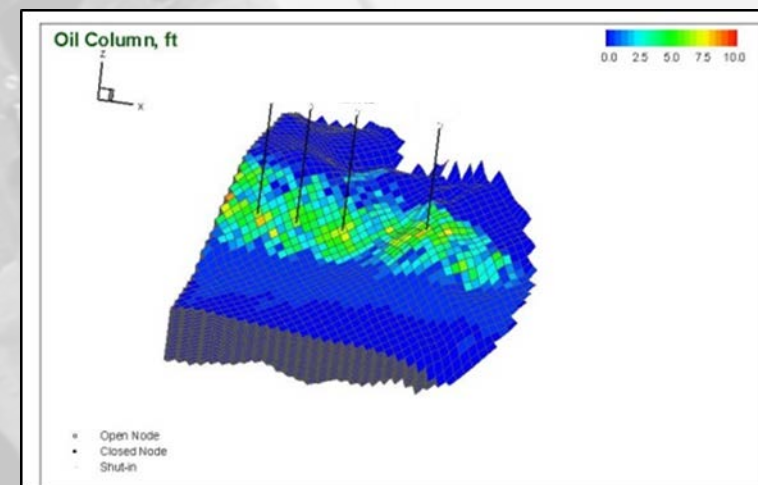
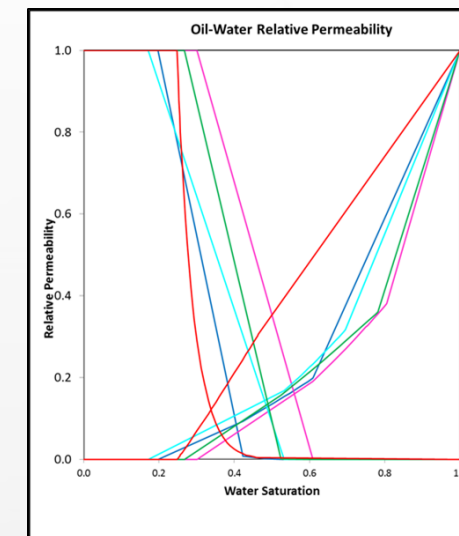
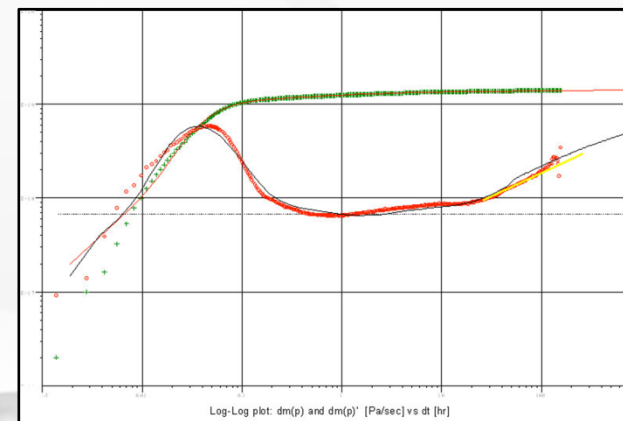


## RESERVOIR ENGINEERING

Our reservoir engineering team integrates upscaled static model, rock/fluid interactions, PVT and other relevant datasets for building simulation models to deliver reliable predictions of reservoir performance. In addition to providing reservoir performance predictions, our engineers provide insight into process mechanisms, recommendations for improved reservoir management, and comprehensive guidelines for optimizing hydrocarbon recovery.

### What we provide

- Classical Reservoir Engineering Analysis i.e. Material balance, Pressure Transient and Decline curve analysis
- PVT & Relative Permeability Modelling
- Building of reservoir simulation models based on the upscaled static model for History Matching & Production Forecast
- Building Production Scenarios with Sensitivity & Uncertainty Analysis
- Reservoir Surveillance & Management
- Development Planning along with an integrated team of Geologist, Geophysicists, Petrophysicists & Petroleum Engineers
- Appropriate Enhanced and Improved Oil Recovery techniques (EOR/IOR)
- In-place, Reserve & Resource Estimate



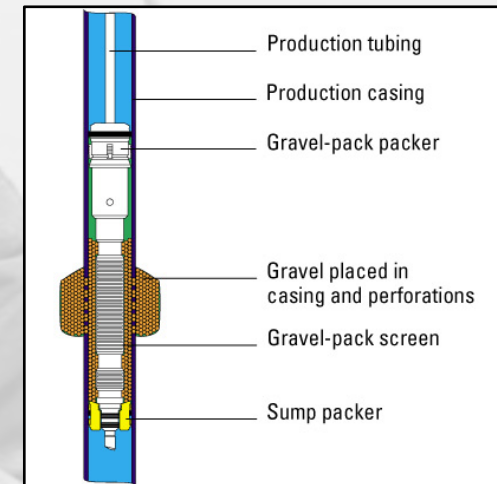
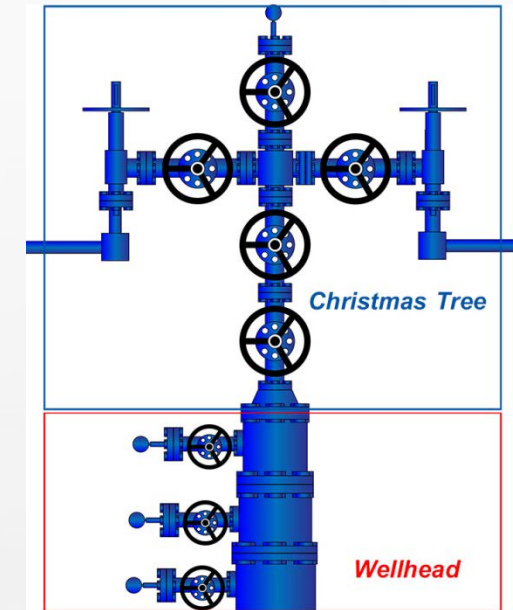
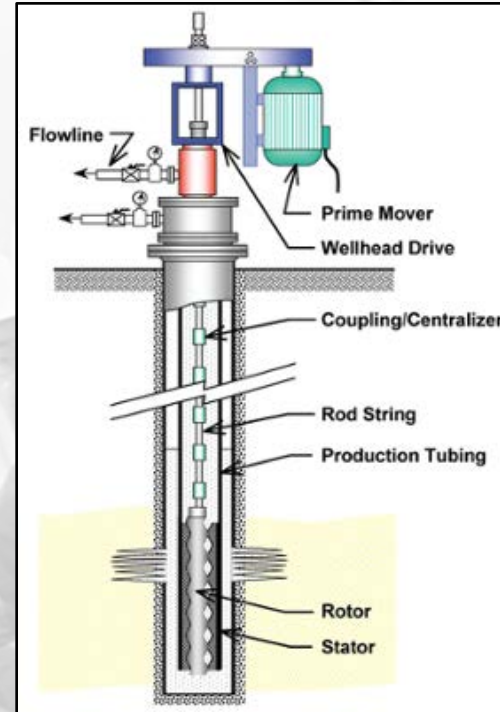


**PRODUCTION ENGINEERING**

Our Petroleum Engineering team provides expert advice on production and well engineering covering well construction; completion design; reservoir surveillance and stimulations; and production and operations engineering.

**What we provide**

- Appropriate conventional & unconventional completions design
- Production Optimization & Monitoring
- Stimulation & Artificial Lift Planning
- Well Test Planning & Analysis
- Well Servicing and Workover Operations Planning & Supervision



## PETROPHYSICS

**Our Petrophysicist have provided our customers with exceptionally good project management and petrophysics interpretation support. Following are the petrophysics services we provide:-**

1. Wireline/LWD data Quality control (QC) and job planning support
2. Probabilistic and Deterministic formation evaluation
3. Petrophysical support for integrated projects and field development plans
4. Core-Log integration
5. Rock-typing studies
6. Saturation Height function modeling
7. Nuclear magnetic resonance data QC, Processing and Interpretation
8. Acoustic Data QC, Processing and Interpretation
9. Image data QC, Processing and Interpretation
10. Pulsed neutron data QC, Processing and Interpretation

